

# Sebacic acid, 3-methylbut-3-enyl tridecyl ester

<b>Inchi:</b>	InChI=1S/C28H52O4/c1-4-5-6-7-8-9-10-11-14-17-20-24-31-27(29)21-18-15-12-13-16-19
<b>InchiKey:</b>	HLKCAQQTWCBNBS-UHFFFAOYSA-N
<b>Formula:</b>	C28H52O4
<b>SMILES:</b>	<chem>C=C(C)CCOC(=O)CCCCCCCC(=O)OCCCCCCCCCCCC</chem>
<b>Mol. weight [g/mol]:</b>	452.71

## Physical Properties

Property code	Value	Unit	Source
gf	-203.67	kJ/mol	Joback Method
hf	-995.21	kJ/mol	Joback Method
hfus	71.26	kJ/mol	Joback Method
hvap	95.64	kJ/mol	Joback Method
log10ws	-9.12		Crippen Method
logp	8.471		Crippen Method
mvol	415.960	ml/mol	McGowan Method
pc	704.71	kPa	Joback Method
rinpol	3159.00		NIST Webbook
tb	989.18	K	Joback Method
tc	1224.31	K	Joback Method
tf	533.92	K	Joback Method
vc	1.633	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1443.87	J/mol×K	989.18	Joback Method
cpg	1465.85	J/mol×K	1028.37	Joback Method
cpg	1485.96	J/mol×K	1067.56	Joback Method
cpg	1504.28	J/mol×K	1106.74	Joback Method
cpg	1520.89	J/mol×K	1145.93	Joback Method
cpg	1535.88	J/mol×K	1185.12	Joback Method
cpg	1549.31	J/mol×K	1224.31	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U355944&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U355944&amp;Units=SI</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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